

```
clear all
format long
nins = 639780;
T1 = 639780001; %ns

temps_ins = T1/nins
```

```
temps_ins =
    1.000000001563037e+03
```

v1

```
T_inf_v1_tar = 639707001;
cami_critic_v1_tar = T_inf_v1_tar/temps_ins
```

```
cami_critic_v1_tar =
    6.397070000001141e+05
```

```
cami_critic_v1_nostre = (110+100442+103144+57444+103144+57444+103144+57444+57444+0)
```

```
cami_critic_v1_nostre =
    639760
```

```
T_inf_v1_nostre = cami_critic_v1_nostre*temps_ins
```

```
T_inf_v1_nostre =
    6.397600009999686e+08
```

```
Parallelism_v1 = T1 / T_inf_v1_nostre
```

```
Parallelism_v1 =
    1.000031261723146
```

v2

```
T_inf_v2_tar = 361190001;
cami_critic_v2_tar = T_inf_v2_tar/temps_ins
```

```
cami_critic_v2_tar =
    3.611900004354466e+05
```

```
cami_critic_v2_nostre = (57+100442+10305+57444+10305+57444+10305+57444+57444+0)
```

```
cami_critic_v2_nostre =
    361190
```

```
T_inf_v2_nostre = cami_critic_v2_nostre*temps_ins
```

```
T_inf_v2_nostre =
```

3.611900005645534e+08

Parallelism_v2 = T1 / T_inf_v2_nostre

Parallelism_v2 =
1.771311498103491

v3

T_inf_v3_tar = 154354001;
cami_critic_v3_tar = T_inf_v3_tar/temps_ins

cami_critic_v3_tar =
1.543540007587390e+05

cami_critic_v3_nostre = (57+100442+10305+5735+10305+5735+10305+5735+5735+0)

cami_critic_v3_nostre =
154354

T_inf_v3_nostre = cami_critic_v3_nostre*temps_ins

T_inf_v3_nostre =
1.543540002412611e+08

Parallelism_v3 = T1 / T_inf_v3_nostre

Parallelism_v3 =
4.144887725617735

v4

T_inf_v4_tar = 64018001;
cami_critic_v4_tar = T_inf_v4_tar/temps_ins

cami_critic_v4_tar =
6.401800089993748e+04

cami_critic_v4_nostre = (128+10035+10305+5735+10305+5735+10305+5735+5735+0)

cami_critic_v4_nostre =
64018

T_inf_v4_nostre = cami_critic_v4_nostre*temps_ins

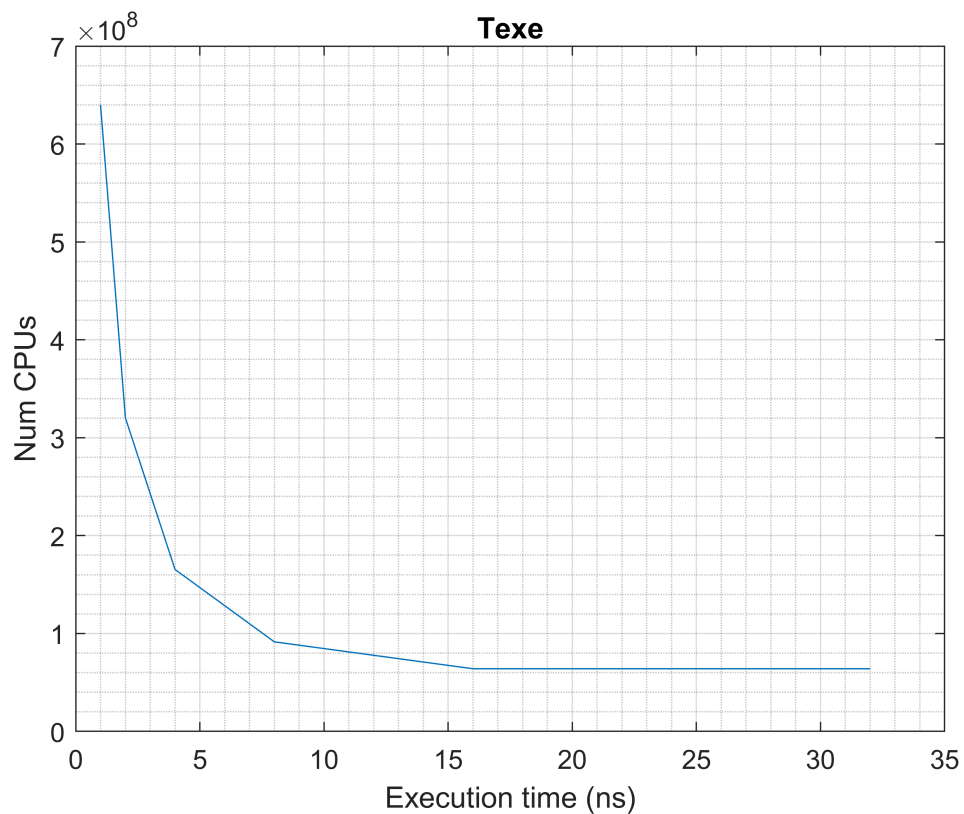
T_inf_v4_nostre =
6.401800010006252e+07

Parallelism_v4 = T1 / T_inf_v4_nostre

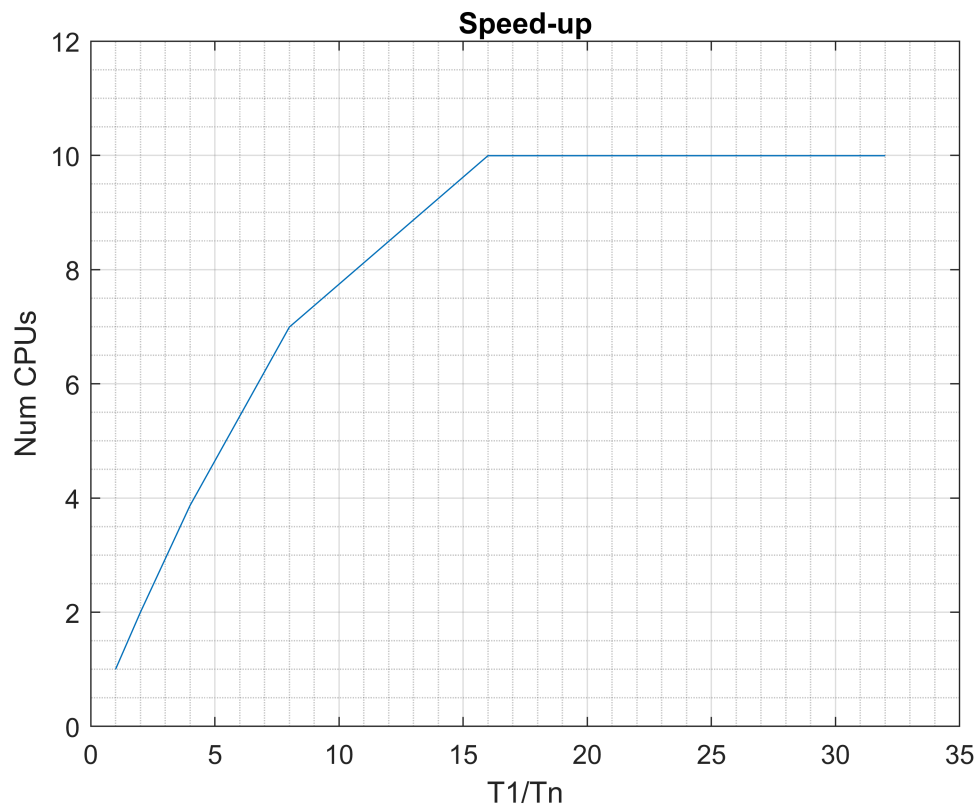
```
Parallelism_v4 =
    9.993751757318254
```

```
T1_v4 = 639780001;
T2_v4 = 320310001;
T4_v4 = 165389001;
T8_v4 = 91496001;
T16_v4 = 64018001;
T32_v4 = 64018001;
```

```
x = [1 2 4 8 16 32];
y_v4 = [T1_v4 T2_v4 T4_v4 T8_v4 T16_v4 T32_v4];
plot(x,y_v4), title("Texe"), xlabel("Execution time (ns)", ylabel("Num CPUs"), grid on, grid m
```



```
plot(x,T1./y_v4, 35, 12), title("Speed-up"), xlabel("T1/Tn"), ylabel("Num CPUs"), grid on, gri
```



v5

```
T_inf_v5_tar = 27971001;
cami_critic_v5_tar = T_inf_v5_tar/temps_ins
```

```
cami_critic_v5_tar =
    2.797100095628028e+04
```

```
cami_critic_v5_nostre = (970+20+1065+1022+5735+1022+5735+1022+5735+5735+0)
```

```
cami_critic_v5_nostre =
    28061
```

```
T_inf_v5_nostre = cami_critic_v5_nostre*temps_ins
```

```
T_inf_v5_nostre =
    2.806100004386039e+07
```

```
Parallelism_v5 = T1 / T_inf_v5_nostre
```

```
Parallelism_v5 =
    22.799615124193721
```

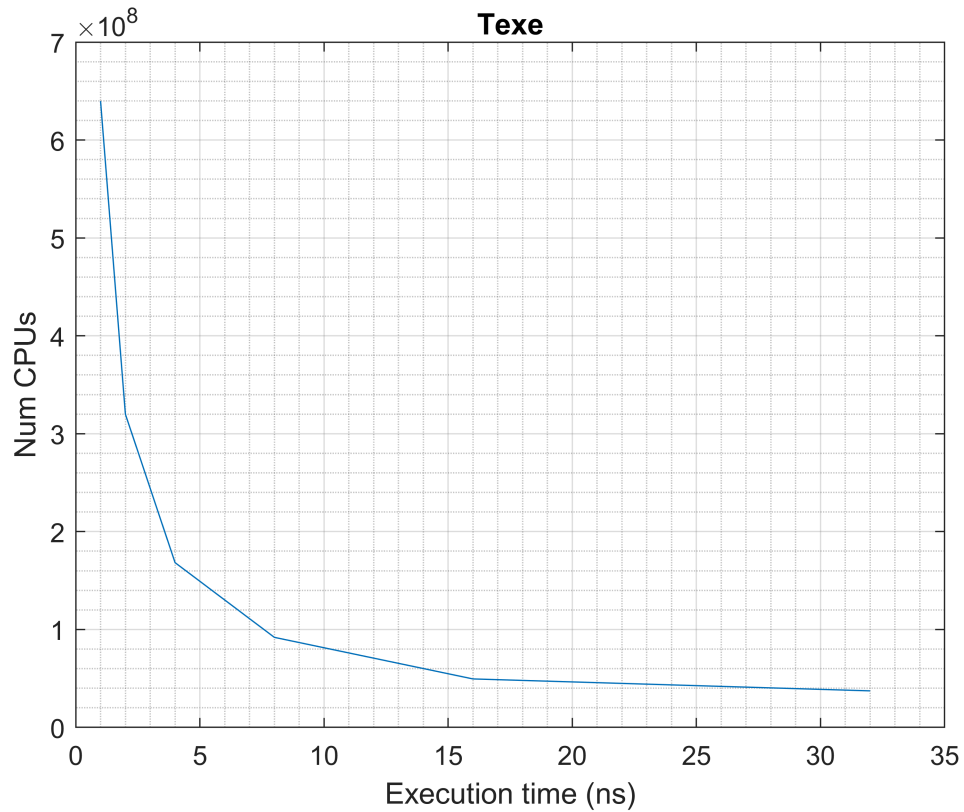
```
T1_v5 = 639780001;
T2_v5 = 320020001;
```

```

T4_v5 = 168343001;
T8_v5 = 92001001;
T16_v5 = 49520001;
T32_v5 = 37337001;

x = [1 2 4 8 16 32];
y_v5 = [T1_v5 T2_v5 T4_v5 T8_v5 T16_v5 T32_v5];
plot(x,y_v5), title("Texe"), xlabel("Execution time (ns)", ylabel("Num CPUs"), grid on, grid m

```



```

plot(x,T1./y_v5, 35, 18), title("Speed-up"), xlabel("T1/Tn"), ylabel("Num CPUs"), grid on, grid m

```

